

Title (en)
OBJECT RECOGNITION DEVICE

Title (de)
OBJEKTERKENNUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE RECONNAISSANCE D'OBJET

Publication
EP 2019288 A1 20090128 (EN)

Application
EP 07743414 A 20070515

Priority
• JP 2007059979 W 20070515
• JP 2006138256 A 20060517

Abstract (en)
An object recognition device detects a position of a vehicle based on a running path obtained by GPS, vehicle speed, steering angle, etc., and also detects the position of the vehicle based on a result of recognition of an object obtained using a captured image of a camera. The device computes a positioning accuracy in detecting the vehicle position, which accuracy mostly deteriorates as a movement distance of the vehicle increases. Positional data of the object on the road to be recognized is stored in a map database beforehand. A recognition range of the road of the object to be recognized is set based on the detected position of the vehicle, a position of the object stored in the map database, and the computed positioning accuracy. The object is recognized for the set recognition range by processing of the captured image of the camera.

IPC 8 full level
G01C 21/00 (2006.01); **B60W 30/00** (2006.01); **G01C 21/30** (2006.01); **G01C 21/36** (2006.01); **G06K 9/00** (2006.01); **G08G 1/0969** (2006.01)

CPC (source: EP KR US)
G01C 7/04 (2013.01 - EP KR US); **G01C 21/28** (2013.01 - KR); **G01C 21/30** (2013.01 - EP US); **G01C 21/3602** (2013.01 - EP KR US); **G01C 21/3848** (2020.08 - KR); **G06V 20/588** (2022.01 - EP KR US); **G08G 1/0969** (2013.01 - KR); **G08G 1/166** (2013.01 - EP KR US); **G08G 1/167** (2013.01 - EP KR US); **G08G 1/16** (2013.01 - EP US)

Cited by
EP3637053A4; EP3660456A4; EP3534114A4; GB2559196A; GB2559196B; US10890453B2; US11519727B2; KR20180004206A; EP3306429A4; EP3480560A1; CN109752741A; DE112009002300B4; US10953896B2; US10788327B2; KR101880013B1

Designated contracting state (EPC)
DE FR GB

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2019288 A1 20090128; EP 2019288 A4 20120328; EP 2019288 B1 20131218; CN 101346603 A 20090114; CN 101346603 B 20110803; JP 2007309757 A 20071129; JP 4724043 B2 20110713; KR 101018620 B1 20110303; KR 20080037712 A 20080430; US 2010061591 A1 20100311; US 7898437 B2 20110301; WO 2007132860 A1 20071122

DOCDB simple family (application)
EP 07743414 A 20070515; CN 200780000977 A 20070515; JP 2006138256 A 20060517; JP 2007059979 W 20070515; KR 20087006354 A 20070515; US 6710007 A 20070515